

## ABSTRACT

An antenna structure in the shape of a conducting plate for radiating and receiving electromagnetic signals and having  
5 a first opening for producing electromagnetic resonance at a first frequency band and a second opening for producing electromagnetic resonance at a second frequency band. A coaxial cable is used to feed signals of both frequency bands to the antenna across the first opening. The first opening  
10 can be on a deflected part of the conducting plate relative to the second opening.